BELLSOUTH

BellSouth

Suite 900 1133-21st Street, N.W. Washington, D.C. 20036-3351

ben.almond@bellsouth.com

Ben G. Almond

Vice President-Federal Regulatory

202 463-4112 Fax 202 463-4198

September 27, 2000

RECEIVED

Mr. Dale N. Hatfield Federal Communications Commission

445 12th Street, S.W., Room 7-C155 Washington, DC 20554

SEP 27 2000

FEDERAL COMMUNICATIONS COMMUNICATION OFFICE OF THE SECRETARY

RE: Final Service Disruption Report

Dear Mr. Hatfield:

Pursuant to the requirements of the Commission's Order in CC Docket 91-273, released February 27, 1992, BellSouth Telecommunications, Incorporated submits a Final Service Disruption Report for a service outage that occurred on August 28, 2000.

The attached final report completes our response on the August 28, 2000 outage. It includes an update of the information previously provided in the 120 Minute Initial Service Disruption Report that was sent to the Commission's Watch Office on August 28, 2000.

If you have any questions concerning this report, please contact the undersigned.

Sincerely,

Ben G. Almond

Vice President-Federal Regulatory

Attachment

Cc:

Robert Kimball

FINAL SERVICE DISRUPTION REPORT

This Final Service Disruption report is filed by BellSouth Telecommunications Inc., in accordance with both the First and Second Report and Order Amendment of Part 63.100 of the Federal Communications Commission's rules. A 120-minute Initial Service Disruption Report for this August 28, 2000 outage in Atlanta, Georgia was filed with the FCC Watch Officer on August 28, 2000.

GEOGRAPHIC AREA AFFECTED:

This outage involved a fiber system located in metropolitan Atlanta between Atlanta-Buckhead and Dunwoody in LATA 438.

DURATION OF OUTAGE:

Further investigation determined carrier system alarms were received at 12:55PM EDT. Carrier systems were restored at 1:55PM EDT for a total duration of 1 hour.

ESTIMATED NUMBER OF CUSTOMERS AFFECTED:

There were approximately 65,860 customers that could have been affected during this facility outage.

TYPES OF SERVICE AFFECTED:

Inter-Office and Intra-LATA services were affected during this outage.

Primarily, there was blockage on several inter-office, local trunk groups between the following BellSouth end offices (ALPRGAMA47C, MCDNGAGS95A, ATLNGAAD69F, BRMNGAES53A, PWSPGAAS94A, WDSTGACR92E, MRTTGAMA42G, DLLSGAES44A, VLRCGAES45A, DNWDGAMA67A, ATLNGASSDS1, ATLNGAPPDS2, CHMBGAMADS0, ATLNGAWDDS1, PTCYGAMA48C, RSWLGAMADS1, NWNNGAMA25C, RVDLGAMA99A, FRBNGAEB96A, MRRWGAMA96F, ATLNGAEP64A, STBRGANH47C, MCDNGAGS95A, ATLNGABH34F, ATLNGAHR79E).

ESTIMATED NUMBER OF BLOCKED CALLS:

There were approximately 10,448 blocked calls during this event. BellSouth saved 13,762 calls from being blocked by implementing multiple reroutes in their inter-office trunking network.

APPARENT OR KNOWN CAUSE OF THE INCIDENT:

On August 28, 2000, BellSouth field forces were working a planned fiber re-arrangement. A fiber involved in the re-arrangement fed the protect side of the 102S/T6x/Atlanta-Buckhead/Dunwoody system (which was the working side). When the fibers were opened, the 102S/T6x did not switch to the main side (due to the switch controller card having been optioned for "manual" mode instead of "auto" mode).

ROOT CAUSE:

Process Errors-Telco

Facility Options in Alcatel 21130 multiplexer set to manual mode

METHODS USED TO RESTORE SERVICE:

At 1:00PM ET, BellSouth surveillance personnel began investigating call blockage and single CCS7 link failures in the local Atlanta area. An outage bridge was established to determine the cause while specialists began implementing reroutes on BellSouth's inter-office trunk groups.

Multiple tickets were sent to field personnel at multiple sites, and Technical Support personnel further analyzed the situation with surveillance, analysis and field personnel. Service was restored when Technical Support directed the Atlanta-Buckhead central office technician to manually switch the 102S/T6X to the main side from the protect side (and call blockage began to clear

STEPS TO PREVENT RECURRENCE:

A previous BellSouth internal memorandum addressing detailed option settings and recommendations for protection switching testing of all Alcatel 21130 rings is being redistributed, with estimated completion of October 15, 2000.

Field personnel corrected the option settings for this 21130 multiplexer. In addition, the Atlanta District is systematically rolling off the 21130 systems to a SONET platform.

BellSouth's Regional Technical Support Group-Transport is evaluating the feasibility of having the 21130 systems region-wide tested and options verified with the vendor (Alcatel); discussion is currently underway with target date of October 30, 2000.

EVALUATION OF EFFECTIVENESS AND APPLICATION OF NRC RECOMMENDATIONS AND BEST PRACTICES

In the Network Reliability Council's Compendium of Technical Papers, the root cause of this failure is best described in Section A, Paragraph 5.1 where "process error" is listed as a cause of failure.

Paragraph 6.1.3 mentions "adherence to procedures" specifically and stresses the need to comply, utilize and benefit from existing standards and procedures. BellSouth has addressed this best practice by taking the actions noted in "Steps to Prevent Recurrence".

×	120 Minute Initial Report
	Initial Report

SERVICE DISRUPTION

	72 Hour Initia
	Report

<u>TO:</u>	FAX No.	FAX No.: (202)-418-2812 or		TO:		FAX No.: (301)-725-2521			
Washington, D. C. Tel. No.: (202)-632-6975		,	Columbia Operations Center Columbia, Maryland						
			Colembia, 1434	Ytane					
FROM: Reported Initiated By		y :	Kay Phelps						
BellSouth Telecommunications Contact No.:		_	(404-321-2516)						
Date of Incident: 8/28/2000 Date of BST's Knowledge of Incident: 8/28/2000				ne of Incident: ne of Knowledge:	12:55 12:55	AM EST AM CST PM CST CST			
Estimated Number of Customers Affected: Actual: Potential 65,860									
Duration of Incident: 1 hour Estimated Number of Blocked Calls: 10,448									
Geographic Area:			Ty	pes of Services A	Affected:				
Citat	er Atlanta			Intra-Office	911				
North East Arlanta State: Georgia				Inter-Office	Congestion				
CLLI:			Ø	Intra-LATA	Operator Ser	vices			
LATA #: 438				Inter-LATA	LIDB/800				
	tro S	uburban							
Switch Types:		Cate	on v of	Incident Which	Makes this Report	table:			
☐ ATT 1AESS ☐ NTI DMS 200 ☐ I ☐ ATT 5ESS ☐ NTI STP ☐ I ☐ ATT STP ☐ Siemens EWSD ☐ I		Local S TOPS Tanden		SS7 Congestion Facility Special 911	>50,000 Lines 30,000 to 49,999 Lines Fire FAA/Media Attention				
Apparent or Known Cause of Incident: While working on a fiber between Chamblee and Atlanta-Buckhead, Georgia, the 102									
t6x between Dunwoody and Atlanta-Buckhead was opened, causing it to go down (part of the system was set to manual which prevented it from automatically switching to protect.									
Methods to Restore Service: BellSouth manually switched the system to the main and service was restored									
Steps to Prevent Recurrence: To Populate									
BST Contact: B. G. Almond Determined			Dete F	axed to FCC:					
Dire	Director - Federal Regulatory		Time R	eported To FCC:		AM EST			
Tel. #: (202)-463-4112					PM CST				
FAX #: (202)-463-4198 F			FCC C	ontact:					